Plant and Equipment Expenditures: Year 1980

USINESS plans to spend \$195.7 billion for new plant and equipment in 1980, 10.9 percent more than in 1979, according to the survey conducted in late November and December (table 1). This is the first BEA survey that covers the year 1980. Estimated 1979 spending, based on the survey conducted a month earlier, is \$176.4 billion, 14.7 percent more than in 1978.1

These data are not adjusted for price change. The implicit price deflator for the nonresidential fixed investment component of GNP increased 8½ percent in 1979. Survey respondents reported that prices of capital goods purchased by them increased 9% percent in 1979; they expect capital goods

1. For estimates of prior years, see pages 25-40 of "Revised Estimates of Now Plant and Equipment Expenditures, 1047-60: Part I" in the January 1970 Sunvey or Cornery Business and the March 1970, 1972, 1974, 1976, and 1978 SURVEY ISSUES.

The estimate for 1979 is based on actual expenditures in the first three quarters and plans for the fourth quarter. The plans were adjusted for systematic biases by procedures Contribed on pages 30-30 of the February 1970 SURVEY.

The 1080 plans also were adjusted for systematic biases. Before adjustment, plans were 800.12 billion for manufacturing and \$106.80 billion for nonmanufacturing; the not effect of the adjustments was to lower manufacturing \$0.61 billion and to rake nonmonofacturing 80.36 billion. The bias adjustiments, which are computed soperately for each major industry, were applied only when plans deviated from actual spending in the same direction for \$ of the last 7 years. In those cases, the adjustment used was the median deviation between actual and planned spending in the last 5 years.

prices to increase 10 percent in 1980 (table 2).2 This information indicates that real spending increased 4%-5% percent in 1979 and implies an increase in planned real spending in 1980 of 1-2 percent.

For the 10 years that the November-December surveys have been taken, actual year-to-year changes in spending have deviated from planned changes by less than 1½ percentage points in 6 of these years (chart 9). Plans significantly overstated the spending increases in the recession years 1970 and 1975-3.8 and 4.3 percentage points, respectively. In 1978 and 1979, plans understated increases by 2.6 and 3.5 percentage points. There are many uncertainties about the economic outlook for 1980,

Table 1.—Expenditures for New Plant and Equipment by U.S. Business!

\ 	1976	1970 +	1986 1	1979-70	1970-80
_	Diffigus of dothers			Percent change	
All industries.	153. 52	174, 37	196, 67	14,7	10.4
Manufacturing	47. 62	78, 30	59,51	15.6	14.3
Decable goods	3L 66	37.59	43.76	18.2	16.6
Primary metals * Blast furnaces, steel works Nonferrous motals Electrical questionery Marbinery, except éteotrical Transportation equipment t Motor vehicles Airemet * Blone, clay, and glast Other durables *	5. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.34 2.40 3.00 3.15 7.44 2.27 4.34 4.34	7.58 8.300 2.005 0.000 0.70 5.70 2.70 8.40	11. 4 17. 6 7. 6 20. 9 29. 4 21. 8 14. 8 10. 9	15.00 11.00 12.7.30 14.3
Mondayable goods.	35, 26	40,43	45,76	12.4	13.
Food Including boverage. Teatiles Paper Chemicals Petroferm Rubber Other nondumbles!	6.87 1,04 3.46 7,10 10,50 1,75 2.24	6.06 1.03 4.84 3.41 16.47 1.80 2.72	8.41 9.16 6.00 0.06 10.07 2.03 3.02	4.8 -0.6 16.4 6.3 6.4 21.7	4. 22. 8. 15. 9. 1.
Noncomplicated by the second of the second o	86, 19	\$3, 97	106, 16	12.9	8.
Mining. Ruihoed. Air temeportation. Other transportation. Public utilities. Electric. Oue and other. Communication, commercial and other?	12 2 2 2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4	£ 42 4,88 5,44 2,07 33,18 28,10 4,90 40,17	6, 45 4, 40 3, 44 34, 80 29, 23 8, 17 54, 07	15.0 17.0 44.8 12.0 18.7 0.3 12.1	16. 12. 2. 14. 2. 2. 10.

[.] Excludes agricultura) basiness; real estate; medical, legal, admentional, and cultural services; and mapprofit organizations.

Planned capital expenditures reported by business in late November and December 1978. Plans have been adjusted for

2. Respondents were asked:

Table 2.—Change in Prices of Capital Goods Purchased

(Percent change from precedint year)

	Non	orlod in rDes. starvey	Reported in NovDec. 1970 survey		
	Actual 1978	Exposted 1979	Aoinei 1970	Expented 1080	
All industries	8,0	L 1	0.6	3,1	
Manufacturing	5,4	8,3	M.F.	10,1	
Durable goods Nondurable goods	8.5 8.4	8.5 8.1	10.9 0.8	10.6 14.1	
Neumanufactoring	7,7	7,9	9.2	9.8	
MiningTransportation	10.6 0.3	10.7 8.4	12.0 12.2	12.1 12.4	
Public addition Communication,	7.8	7.8	0.3	9.4	
commercial, and other	7.1	7.0	8.2	8.0	

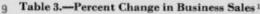
^{1.} Includes industries not shown esparaicly.
4. Includes guided missiles and space vehicles.
5. Consists of shortested saetol, lumber, turniture, instruments, and miscellaneous.
6. Consists of spacet, tobseco, leather, and printing-publishing.
7. Includes trade, service, constituction, thance, and transacce.

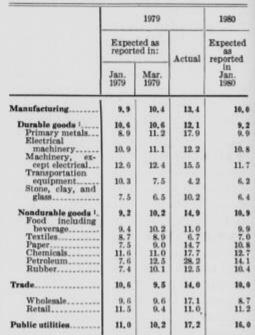
[&]quot;What are your best estimates of average noise changes from 1978 to 1979 and expected price changes from 1979 to

[&]quot;a. Prices paid by your company for now construction, machinery, and equipment,

[&]quot;b, Priess of goods and/or services sold by your company." Similar information was obtained in the corresponding annual surveys conducted since 1970. The companies' reaponees on capital goods and sales price changes were weighted by their reported capital expenditures and sales, respectively

CHART 9

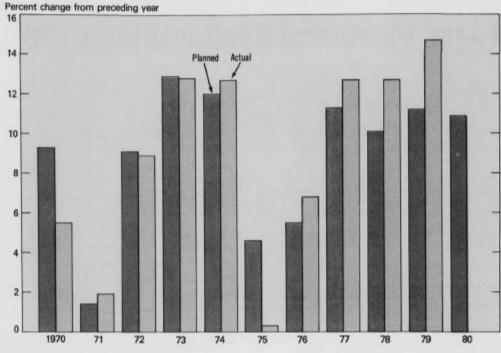




1. Includes industries not shown separately.

Sources: Manufacturing data from Bureau of the Census, Current Industrial Reports, Series M-3, for first 11 months of 1979, and BEA estimates for December 1979. Trade data are from Bureau of the Census, Current Business Reports, Monthly Wholesale Trade and Monthly Retail Trade, and BEA estimates for December 1979. Public utility figures are estimated by BEA on basis of data collected in the annual business investment surveys.

Planned and Actual Capital Spending



Note — Planned spending estimates from November-December surveys. Estimate of 1979 actual spending is preliminary.

U.S. Department of Commerce, Bureau of Economic Analysis

and it is not known to what extent these uncertainties are reflected in investment plans. However, if there were a recession in 1980, as is quite possible, investment plans would probably be scaled down.

Manufacturing industries plan spending of \$89.5 billion, 14% percent more than in 1979; the 1979 increase was 16 percent. All major manufacturing industries plan increases in 1980. The largest increases are planned by aircraft, 29 percent; paper, 23 percent; and electrical machinery, 20 percent. Increases between 16 and 18 percent are planned by nonelectrical machinery, iron and steel, and petroleum. Increases between 13 and 15 percent are planned by textiles, stone-clay-glass, nonferrous metals, and "other durables." The year-to-year changes in investment programs of nonferrous metals, textiles, and petroleum show more strength than last year; changes in the programs of the machinery and transportation groups, paper, chemicals, and "other nondurables" show less strength.

Nonmanufacturing industries plan spending of \$106.2 billion, 81/2 percent more than in 1979; last year, their spending increased 14 percent. All nonmanufacturing industries except mining plan smaller increases this year than last. The largest increases for 1980 are planned by mining, 17 percent; "other transportation," 141/2 percent; and railroads, 13 percent. The "communications and commercial" group plans a 10-percent increase. Electric and gas utilities plan increases of 3½ percent; last year, electric utilities increased their spending almost 14 percent. Airlines plan a 3-percent increase; these firms increased spending more than 40 percent in 1978 and 1979.

Sales and sales prices

Manufacturers expect their sales to increase 10 percent in 1980 (table 3). The actual increase in 1979 was 13½ percent, compared with an expected increase of 10 percent reported at this time last year. Trade firms also expect an increase of 10 percent; last year, they had a 14-percent increase, compared with an expected 10½ percent.

Public utilities expect a 16-percent increase; they had a 17-percent increase in 1979, compared with an expected 11 percent.

Manufacturers expect the prices of their goods and services sold to increase 8½ percent this year, slightly less than the 9 percent they reported for last year; they had expected 6 percent last year (table 4). Public utilities expect an 11-percent increase, compared with 12 percent for last year; they had expected 8 percent last year.

Table 4.—Change in Prices of Products and Services Sold by Manufacturing and Utility Companies

[Percent change from preceding year]

	Reported in NovDec. 1978 survey		Reported in NovDec. 1979 survey	
	Ac- tual 1978	Ex- pected 1979	Ac- tual 1979	Ex- pected 1980
Manufacturing	6.4	6, 2	9,2	8.5
Durable goods Nondurable goods,	6.7 6.1	6.3 6.0	7.5 11.1	7, 8 9, 3
Public utilities	9.1	7.8	12, 1	11.2